



Case Study

William Penn Leisure Centre



During the refurbishment of the William Penn Leisure Centre which is owned and funded by Three Rivers District Council, and managed by Hertsmere Leisure Trust, **Cemplas Waterproofing and Concrete Repairs Ltd** were called upon by the construction project managers

Faithful and Gould to carry out concrete repairs to the eight supporting columns around the pool area.

Initial work began with Cemplas determining the areas that required repairing by carrying out hammer testing. Defective areas were marked out and saw cut at right angles lines to a minimum depth of 10 mm. All defective concrete was removed from repair area to achieve a minimum gap of 20mm between the existing concrete and the exposed steel reinforcement.

Where the steel reinforcement bar had been exposed the concrete was removed to a depth of 20 mm behind the bar and any corrosion of the steel reinforcement bar was removed within the repair area by wire brushing to achieve BS7079: Part A1. The cleaned reinforcement bar was primed with two coats of Fosroc Nitoprime Zincrich

Concrete priming was undertaken by removing all dust, debris and loose material followed by thoroughly pre-dampening the repair area ensuring all excess water is removed before the application of Fosroc Nitobond HAR. Whilst the HAR bonding aid remained tacky Fosroc

Renderoc HB Repair Mortar was applied using a gloved hand pressing firmly into the repair area and cured with Fosroc Nitobond AR by spray/brush to the completed repair.



On completion of all repairs the columns were given a rendered finish using a Ronafix Polymer modified mortar. Using clean fresh water the columns were damped down until saturated removing any excess surface water followed by a Ronafix/Cement priming coat to the damp columns, and whilst the primer coat remained tacky a 10mm Ronafix Render was applied to all four sides of the columns. Prior to setting the Ronafix render was given a sponge finish.

Cemplas have the capacity and resources to undertake projects in excess of £1m in-house; and have a Management Structure capable of running multi-disciplined projects incorporating a wide variety of trade activities as well as the ones we specialise and undertake ourselves.

For further information on the operational range of services provided by Cemplas, please visit **www.cemplas.co.uk**.

For further details contact:

Paul Stacey at Cemplas on **0208 654 3149**
or **email: info@cemplas.co.uk**